

**Remote sensing application to the management of agricultural drainage water in  
severely arid region: a case study**

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**Abstract:** Al-Hassa Irrigation and Drainage Project, with an irrigated area of 7096 ha, is one of the main agricultural areas in Saudi Arabia. Landsat data were used to map the monthly and seasonal changes in the boundaries of the lakes and the drainage canals in the sand dune areas. The images show that the drainage water has formed large water courses in the sand dunes and is being wasted by flowing into the Arabian Gulf during winter season. These findings are very important and valuable in developing new plans for drainage water management and utilization in the oasis. -from Authors